

NOVA Chemicals Sclair® 14B3 Butene LMDPE Film Resin (discontinued **)

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , MDPE , Linear Medium Density Polyethylene (LMDPE), Film

Material Notes:

Film Properties. Features: Low gel, good clarity, heat resistance and barrier properties. Applications: Lamination, co-extrusion. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-14B3-Butene-LMDPE-Film-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.936 g/cc	0.0338 lb/in ³	ASTM D792
Melt Flow	1.8 g/10 min @Load 2.16 kg, Temperature 190 °C	1.8 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	17.0 MPa	2470 psi	ASTM D882
Film Tensile Strength at Yield, TD	18.0 MPa	2610 psi	ASTM D882
Film Elongation at Break, MD	750 %	750 %	ASTM D882
Film Elongation at Break, TD	950 %	950 %	ASTM D882
Secant Modulus, MD	0.340 GPa	49.3 ksi	ASTM D882
Secant Modulus, TD	0.370 GPa	53.7 ksi	ASTM D882
Coefficient of Friction	0.40	0.40	ASTM D1894
Elmendorf Tear Strength, MD	1.00 g/micron	25.4 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	5.00 g/micron	127 g/mil	ASTM D1922
Dart Drop	1.00 g/micron	25.4 g/mil	F 50; ASTM D1709/A
Film Tensile Strength at Break, MD	42.0 MPa	6090 psi	ASTM D882
Film Tensile Strength at Break, TD	38.0 MPa	5510 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	111 °C	232 °F	ASTM D1525
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D696

Optical Properties	Metric	English	Comments
Haze	15 % @Thickness 0.0250 mm	15 % @Thickness 0.000984 in	ASTM D1003
Gloss	58 %	58 %	45°; 1 mil; ASTM D1894

Processing Properties	Metric	English	Comments
Melt Temperature	225 - 235 °C	437 - 455 °F	

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